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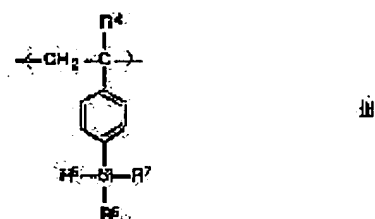
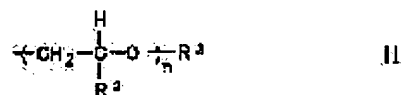
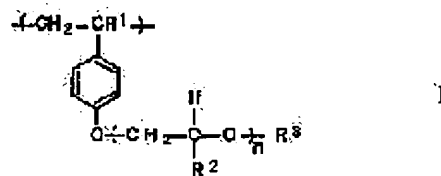
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(54) BLOCK-GRAFT COPOLYMER AND POLYMER SOLID ELECTROLYTE PRODUCED FROM THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a new block-graft copolymer useful as a material for a primary electric cell element and a secondary electric cell element, etc.

SOLUTION: This block-graft copolymer comprises a block chain A consisting of repeating units of formula I [R1 is H or methyl; R2 is H or methyl; R3 is an alkyl or an aryl; (n) is 1-100; the number average molecular weight of a graft chain of formula II in formula I is 45-4,400] and having ≥ 10 polymerization degree, and a block chain B of formula III (R4 is H or methyl; R5 to R7 are each methyl or ethyl) and the component ratio of the block chain A to the block chain B is (1:20) to (20:1). Further, the block-graft copolymer has ≥ 210 polymerization degree. The defect of the conventional block-graft copolymer can be improved by the block-graft copolymer having a trialkylsilyl group- containing styrene derivative as the block chain B introduced therein by the study about the composition of the block chain B.



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